OMB No. 10024-0018

NATIONAL REGISTER LISTED

APR 1 6 2008

United States Department of the Interior National Park Service

National Register of Historic Places Registration Form

This form is for use in nominating or requesting determinations for individual properties and districts. See instructions in *How to Complete the National Register of Historic Places Registration Form* (National Register Bulletin 16A) Complete each item by marking "x" in the appropriate box or by entering the information requested. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, architectural classification, materials, and areas of significance, enter only categories and subcategories from the instructions. Place additional entries and narrative items on continuation sheets (NPS Form 10-9000a). Use a typewriter, word processor, or computer, to complete all items.

1 Name of Property				
Name of Property Historic name Other name/site number	Hitschmann Double Arch Bri	idge		
		-		
2. Location				
Street & number NE	110 Ave. S & NE 190 Rd. 1/	2 east on NE 190 Rd	not for publication	
City or town Hit	schmann		_ vicinity	
State Kansas Code	KS County Barton	Code 009	Zip code	·
3. State/Federal Agency Cer	tification			
request for determination Historic Places and meets the meets of does not meet an antionally statewide statewide Patrick Zollner, Deputy State or Federal agency and state	nd bureau meets does not meet the	ration standards for regis equirements set forth in 36 recommend that this prop in sheet for additional con Da	tering properties in the Nation of CFR Part 60. In my opinior perty be considered significant ments.)	n, the property
State or Federal agency an	d bureau			
4. National Park Service Ce	rtification			
I herby certify that the property is		Signature of the Keeper		Date of Action
☐ entered in the National F ☐ See continuation ☐ determined eligible for the Register ☐ See continuation ☐ determined not eligible to National Register ☐ removed from the Nation Register ☐ other, (explain:)	sheet. he National sheet. for the			

Hitschmann Double Arch Bridge Name of Property		Barton County, Kansas County and State		
Classification				
wnership of Property Check as many boxes as apply)	Category of Property (Check only one box)	Number of Resources within F (Do not include previous	Property ly listed resources in the count.)	
private public-local public-State public-Federal	☐ building(s) ☐ district ☐ site ☑ structure ☐ object			
lame of related multiple property listing Enter "N/A" if property is not part of a multip	le property listing.)	Number of contributing resources previously listed in the National Register		
New Deal-era Resources of Kansas MP Masonry Arch Bridges of Kansas MPS	S		. 0	
3. Function or Use				
Historic Functions Enter Categories from instructions)		Current Functions (Enter categories from instruc	ctions)	
Transportation: Road Related (Vehicula	ar)	Transportation: Road	d Related (Vehicular)	
7. Description				
Architectural Classification (Enter categories from instructions)		Materials (Enter categories from instructions)		
Other:Work Projects Administration (V	VPA)	Foundation: STONE: Limest Walls: STONE: Limest		
		Roof:		
		Other:		

Hitschmann Double Arch Bridge	Barton County, Kansas		
Name of Property	County and State		
8. Statement of Significance			
Applicable National Register Criteria (Mark "X" in one or more boxes for the criteria qualifying the	Areas of Significance (Enter categories from instructions)		
(Mark "X" in one or more boxes for the criteria qualifying the property for National Register			
	SOCIAL HISTORY		
A Property is associated with events that have made a	COMPANIT		
significant contribution to the broad patterns of our	GOVERNMENT		
history	ARCHITECTURE		
B Property is associated with the lives of persons			
significant in our past.			
NA O D			
C Property embodies the distinctive characteristics of a type, period, or method of construction or			
represents the work of a master, or possesses			
high artistic values, or represents a significant and	Period of Significance		
distinguishable entity whose components lack	Period of Significance		
individual distinction.	1941		
D Property has yielded, or likely to yield,			
information important in prehistory or history.			
O. V. J. O. and deputions			
Criteria Considerations (Mark "x" in all the boxes that apply.)	Significant Dates		
(wath A it all the boxes that oppris.)	·		
Property is:	1941		
A owned by a religious institution or used for			
religious purposes.			
B removed from it original location.			
•	Significant Person		
C a birthplace or grave.	(Complete if Criterion B is marked above)		
D a cemetery.	N/A		
b dombos.			
□ E a reconstructed building, object, or structure.	Outtom Affiliation		
,	Cultural Affiliation		
F a commemorative property.	N/A		
G less than 50 years of age or achieved significance			
within the past 50 years			
	Aushitaat/Duildar		
N. C. O. C.	Architect/Builder		
Narrative Statement of Significance (Explain the significance of the property on one or more	Works Projects Administration		
continuation sheets.)			
Softin dutien energy			
9. Major Bibliographical References			
Dibliography			
Bibliography (Cite the books, articles, and other sources used in preparing this form	on one or more continuation sheets.)		
(One the books, and one of section of the property			
Previous documentation on file (NPS):	Primary location of additional data:		
preliminary determination of individual listing (36 CFR 67)	☐ State Historic Preservation Office ☐ Other State agency		
has been requested	☐ Federal agency		
 previously listed in the National Register previously determined eligible by the National Register 	□ Federal agents □ Local government □ Local governm		
designated a National Historic Landmark	University		
recorded by Historic American Buildings Survey	Other		
#	Name of repository:		
recorded by Historic American Engineering	Barton County		
Last 10001000 by a notation and transfer and gardening	•		

Name of Property 10. Geographical Data Acreage of Property Less than one. UTM References (Place additional UTM references on a continuation sheet.) 1	Hitschmann Double	: Arch Bridge		Barton County, Kansas
Acreage of Property Less than one. UTM References (Place additional UTM references on a continuation sheet.) 1	Name of Property			County and State
UTIX References (Place additional UTM references on a continuation sheet.) 1	10. Geographical D	ata		
See confinuation at UTM references on a continuation sheet.) 1	Acreage of Property	Less than one.		
Name/title Janet Crane, Financial Officer Organization Barton County, Kansas Date 11/5/2007 Street & number 1400 Main Room 107 Telephone 620-793-1800 City or town Great Bend State KS Zip code 67530 Additional Documentation Submit the following items with the completed form: Continuation Sheets Maps A USGS map (7.5 or 15 minute series) indicating the property's location. A sketch map for historic districts and properties having large acreage or numerous resources. Photographs Representative black and white photographs of the property. Additional items (Check with SHPO or FPO for any additional items) Property Owner Name Barton County, Kansas Street & number 1400 Main Room 107 Telephone 620-793-1800	(Place additional UTM 1 1 4 9 8 Zone Easting 2 Verbal Boundary Describe the boundaries Boundary Justification	Northing ription s of the property on a continuation sheet.)	Zone 7 4	
Organization Barton County, Kansas Date 11/5/2007 Street & number 1400 Main Room 107 Telephone 620-793-1800 City or town Great Bend State KS Zip code 67530 Additional Documentation Submit the following items with the completed form: Continuation Sheets Maps A USGS map (7.5 or 15 minute series) indicating the property's location. A sketch map for historic districts and properties having large acreage or numerous resources. Photographs Representative black and white photographs of the property. Additional items (Check with SHPO or FPO for any additional items) Property Owner Name Barton County, Kansas Street & number 1400 Main Room 107 Telephone 620-793-1800				
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Property Owner Name Barton County, Kansas Street & number 1400 Main Room 107 Telephone 620-793-1800	Submit the following items: Continuation Sheets Maps A USGS map (7.5 A sketch map for Photographs Representative bl	with the completed form: 5 or 15 minute series) indicating the property's historic districts and properties having large a	acreage or nume	rous resources.
Name Barton County, Kansas Street & number 1400 Main Room 107 Telephone 620-793-1800	Additional items (Check with SHPO or FPO	for any additional items)		
Street & number 1400 Main Room 107 Telephone 620-793-1800	Property Owner			
01 / 1/0 7 manda 97520	Name Ba	irton County, Kansas		
City or town Great Bend State KS Zip code 67530	Street & number_	1400 Main Room 107	Telephone	620-793-1800
	City or town	Great Bend	State	KS Zip code 67530

Paperwork Reduction Act Statement: This information is being collected for applications to the National Register of Historic Places to nominate properties for listing or determine eligibility for listing, to list properties, and to amend existing listings. Response to this request is required to obtain a benefit in accordance with the National Historic Preservation Act, as amended (16) U.S.C. 470 et seq.).

Estimated Burden Statement: Public reporting burden for this form is estimated to average 18.1 hours per response including time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding this burden estimate or any aspect of this form to the Chief, Administrative Services Division, National Park Service, P.O. Box 37127, Washington, DC 20013-7127; and the Office of Management and Budget, Paperwork Reductions Projects (1024-0018), Washington, DC 20503

National Register of Historic Places Continuation Sheet

Section Number 7 Page 1

Hitschmann Double Arch Bridge Barton County, Kansas

NARRATIVE DESCRIPTION

Summary

This double arch native limestone bridge spans Coal Creek near Hitschmann and is located on an east-west rural county road (NE 190 Road) one-half mile east of NE 110 Avenue South. It was completed in 1941 as a Work Projects Administration project as evidenced by the decorative arch keystones on the north and south sides of the bridge. On the top of one round arch is a keystone inserted with the date "1941." On the top of the other round arch is a keystone inserted with the initials "WPA." The bridge is virtually unaltered since its construction. Coal Creek flows during seasonal rains and during dry periods, native vegetation grows in the creek bed. On both sides of the bridge is pasture land used for grazing. On the south side, limestone fencing is utilized. Limestone beds can be seen on the ridges of the hills dotting the countryside.

The bridge is located on a well maintained township gravel road in Barton County. Due to the dimensions of the bridge, bridge repair and maintenance is the responsibility of the Barton County Road and Bridge Department.

Elaboration

The two-span bridge is made of native limestone blocks and concrete mortar joints. The limestone blocks have a rusticated face and many retain the tool markings from when they were quarried by the skilled local WPA construction workers. We do not know who specifically designed this double arch bridge. We do know that then-Barton County Engineer Harry Hunsley, II, designed many of the county's bridge structures. The only notation made in the Barton County Commission minutes was on July 8, 1941. It was a one sentence statement: "It is the desire and intention of the County Commissioners of Barton County, Kansas to start work on WPA projects at once."

According to information compiled by the Kansas Department of Transportation during a statewide survey of historic masonry bridges in 1980, this bridge measures 25 feet wide from curb to curb and is 22 feet long. At the time of the survey, the bridge was noted to be "in good condition." The two arches measure five feet high from the ground to the keystone. Each arch base measures eight feet wide. The only features visible from the roadway are the stone sidewalls that serve as guardrails. These sidewalls, which are flush with the rest of the structure, are made of two courses of limestone topped by a third course of capstones. Stepped down from both sides of the sidewalls are slightly angled wingwalls built into the roadside embankment. These 6 feet wide wingwalls protect the structure from erosion during high water flows.

Historic Bridge Inventory form and photographs, November 17, 1980. Filed at the State Historic Preservation Office, Topeka, KS.

National Register of Historic Places Continuation Sheet

Section Number 7 Page 2

Hitschmann Double Arch Bridge Barton County, Kansas

Although located near another WPA-constructed stone arch bridge that spans Coal Creek, this bridge is more decorative. The dressed limestone blocks, decorative keystones, and impressively constructed arches suggest an emphasis was placed on craftsmanship and design.

While showing some deterioration such as typical spalling, cracking, and mortar failure, the bridge has remained in use for public vehicular traffic since its construction in 1941 to the present time. It is listed on the bridge inventory of Barton County. Routine structural inspections are performed to evaluate the condition of the bridge.

National Register of Historic Places Continuation Sheet

Section Number 8 Page 3

Hitschmann Double Arch Bridge Barton County, Kansas

STATEMENT OF SIGNIFICANCE

Summary

The Hitschmann Double Arch Bridge is being nominated to the National Register of Historic Places under Criterion A for its construction under the supervision of the Works Projects Administration (WPA) and Criterion C for its architectural significance as a native limestone double arch bridge. The bridge, unique with a double arch design, spans Coal Creek in northern Barton County, north of Hitschmann. The bridge's native limestone is typical of structures built in this area and is representative of the master stone builders and craftsmanship of bridge construction workers trained by the WPA. The bridge is being nominated as part of two multiple property nominations: the New Deal-era Resources of Kansas MPS and the Masonry Arch Bridges of Kansas MPS.

History

Hitschmann-area History

According to written records maintained by the Barton County Historical Society, the following excerpt was written by Elfrieda Wydziak from Claflin, Kansas about the town of Hitschmann. "How did Hitschmann get its name? In 1917, the Santa Fe Railroad decided to lay a railroad from Little River, Kansas to Galatia, Kansas so they contacted all of the farmers. The railroad authorities came to J.A. Hitschmann's (the first) residence and asked his for permission to lay the railroad. He informed them he did not want his land divided. After contacting him several times with no success, they asked him: "If we name the town 'Hitschmann' in memory of your name, then will you let us?' He then cooperated with them so that's how Hitschmann got its name."

The town grew rapidly during the 1940s after an oil company built some "shotgun shacks" for the workers, and a school was built it 1948. When the oil boom ended in the late 40's so did the town. The school closed and the students were bused to Claffin.

New Deal-era Historic Context³

Through the Works Progress Administration (later reorganized as the Works Projects Administration), Kansas realized many new public building and recreational facilities. Between July 1, 1935 and June 1, 1939 the WPA either built or improved 619 buildings in the state. That figure includes 36 administrative

² Barton County Historical Society, Great Bend, Kansas. History of Hitschmann by Elfrieda Woydziak.

³ The following historic context regarding the Works Progress Administration is included in Elizabeth Rosin's "New Deal-era Resources of Kansas" Multiple Property Document, filed at the Kansas State Historic Preservation Office, Topeka, Kansas: p. E20-22.

National Register of Historic Places Continuation Sheet

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Hitschmann Double Arch Bridge Barton County, Kansas

buildings, 16 auditoriums, 45 barns and stables, 58 community buildings, 59 dormitories, three firehouses, 35 garages, 12 gymnasiums, two hospitals, three jails and reformatories, ten other institutional buildings, seven libraries, 142 schools, 52 stadiums, and 16 warehouses. In addition, there were 121 WPA recreational facilities, including 59 athletic fields, 91 parks, five fairgrounds, 92 playgrounds, 40 swimming and wading pools, 14 band shells, five outdoor theaters, and 140 golf courses, tennis courts, handball courts and horseshoe courts.⁴

In 1939, Clarence Nevins, the state WPA Administrator, commended the people of Kansas. He observed,

"Your attention is called to the fact that practically all of the projects in Kansas have been sponsored by your local governments, and we take this opportunity to commend the counties, the cities, boards of education and other local governmental units in the State for the high type of projects submitted to this agency..."

Nevins concluded by commenting that in June of 1939 there were roughly 30,000 Kansans on the WPA rolls. He observed that over 47 percent were employed on highway or road and street projects; seven percent on public buildings; nine percent on recreational buildings; five percent on utility projects; three percent on road conservation projects; and two percent on airport and airway projects.⁵

Bridge History Context

As is noted in the "Masonry Arch Bridges of Kansas" MPS document, "Little historical information, such as the designer, builder, and date of construction, is available on many of small rural bridges. Often bridge plaques that may have contained historical information have been removed or the county's records are not complete."

Although there is no record of who designed the Hitschmann Double Arch Bridge, it is known that then-Barton County Engineer Harry Hunsley, II, was integrally involved in the planning and execution of this and other similar local bridge projects. Fortunately, this bridge retains its important decorative keystones noting its 1941 construction as part of a WPA project.

The "Masonry Arch Bridges of Kansas" MPS document also discusses the use of limestone arched bridges well before the New Deal programs of the 1930s: "Stone arch bridges were popular in Kansas for many reasons, a major one being that the stone was often available locally. Thus, a larger amount of the money expended for the construction could be retained within the area than would be true with the

⁵ Eric Foner and John A. Garraty, The Reader's Companion to American History (Boston: Houghton-Mifflin, 1991), 1168.

⁴ Works Projects Administration, <u>Federal Works Agency</u>, (Topeka, KS: n.p., 1939), 1, 10. Kansas State Historical Society, Topeka, KS. This document provides only aggregate numbers of projects. While it is illustrated by photos of selected projects, there is no comprehensive list of projects for Kansas communities.

National Register of Historic Places Continuation Sheet

Section Number 8 Page 5

Hitschmann Double Arch Bridge Barton County, Kansas

purchase of a metal structure. It was also often possible to use local workers on the project. This approach sometimes had its drawbacks as the quality of local stone and workers would vary widely."

Construction Process

The current Barton County Engineer, Clark Rusco and Financial Officer, Janet Crane interviewed Harry Hunsley, III about these historic bridges. The following excerpt on the construction process was compiled from this interview and Mr. Hunsley's personal notes.

During the late 1930s and early 1940s, the Works Projects Administration (WPA) began a massive public works program to provide living wages for the unemployed. A part of this program was the construction of hundreds of small drainage structures of native limestone in Kansas. The stone arch bridges built throughout North Central Kansas during the WPA era were generally built close to the quarry. Evidence of these old quarries can normally be found within a half mile of the structure location. The difficulty of transporting stone by man and animal made it mandatory that quarries be located near the job site. Small abandoned limestone quarries are within short distances of these rural stone bridges.

At the quarry, the limestone ledges would be stripped of overburden by use of mules/horses pulling a drag or "tumble bug"; the cleaned surface would then have a series of holes manually drilled at even spaces approximately 12" apart by use of a star drill. The holes would be carefully filled with water and allowed to freeze overnight. The freezing process would open a seam in the rock, and men would carefully break out the rock using pry bars specially made for this operation.

The stones were sometimes cut into proper sizes at the quarry and transported to the job site by wagons. Other times, the stone would be taken to the job site in long (8'-10') lengths, which were carefully attached to the undercarriage of wagons by block and tackle accompanied by serious physical labor. It is a general assumption that the decision as to whether to take cut stones or long slabs depended on where the stone masons wanted to perform the finish operation of dressing the individual stones to fit the plans for the structure.

Most structures like this one were built as arches. Bridges employing only compression are relatively inefficient structurally, but may be highly cost efficient where suitable materials are available near the site and the cost of labor is low. For medium spans, trusses or box beams are usually most economical, while in some cases, the appearance of the bridge may be more important than its cost efficiency. This is very true of construction during the WPA era; the purpose was to create jobs for the unemployed, not the practicality of the project.

⁶ For a complete historic context about New Deal programs in Kansas, see Elizabeth Rosin's "New Deal-era Resources of Kansas" Multiple Property Document, filed at the Kansas State Historic Preservation Office, Topeka, Kansas.

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Hitschmann Double Arch Bridge Barton County, Kansas

Stone is strong in compression and somewhat so in shear, but cannot resist much force in tension. As a result, masonry arch bridges are designed to be constantly under compression, so far as is possible. Each arch is constructed over a temporary falsework frame, known as a centering. In the first compression arch bridges, a keystone in the middle of the bridge bore the weight of the rest of the bridge. The more weight that was put onto the bridge, the stronger its structure became. Masonry arch bridges use a quantity of fill material (typically compacted rubble) above the arch in order to increase this dead-weight on the bridge and prevent tension from occurring in the arch ring as loads move across the bridge. When masonry (cut stone) is used the angles of the faces are cut to minimize shear forces. Where random masonry (uncut and unprepared stones) is used they are mortared together and the mortar is allowed to set before the falsework is removed.

Where the arches are founded in a stream bed the water is diverted and the bed excavated to a good footing. From this foundation piers are raised to the base of the arches, a point known as the springing. Falsework centering is fabricated, typically from timbers and boards. Since each arch of a multi-arch bridge will impose a thrust upon its neighbors it is necessary that either all arches of the bridge be raised at the same time, or that very wide piers are used. The thrust from the end arches is taken into the earth by footings at the walls, or by large inclined planes forming ramps to the bridge, which may also be formed of arches. The several arches are constructed over the centering. Once the basic arch barrel is constructed, the arches are stabilized with infill masonry between the arches, which may be laid in horizontal running bond courses. These may form two walls known as the spandrels, which are then infilled with loose material and rubble. Parapet or side walls extend above the arches and confine traffic to the bridge roadway.⁷

Summary

Author Henry Tyrrell said in his book *Artistic Bridge Design* that "the bridges and structures created by a people or nation reveal their degree of aesthetic taste and are a measure of their culture and civilization. Bridges should be strong enough to last and beautiful enough to be worth preserving." The Hitschmann Double Arch Bridge clearly reflects the use of local materials and craftsmanship that is worthy of preservation. The bridge remains a part of the public transportation system for Barton County and is used by typical rural traffic. It is routinely inspected and, with rehabilitation, should retain its structural integrity and be preserved as an example of local stone arch bridge building skill.

Barton County is the lead governmental agency for the Kansas Wetlands and Wildlife National Scenic Byway. There is an increased historic awareness of the architectural significance of projects built under the WPA. We realize that tourists and travelers enjoy the cultural and historic aspects of local communities. Developing a listing of historic WPA bridges will enhance the travelers' experience of our local region.

⁷ Conversations with Harry Hunsley, III, Russell, Kansas.

⁸ As quoted in "Masonry Arch Bridges of Kansas" MPS, p. 8-3.

NPS Form 10-900-a

United States Department of the Interior National Park Service

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Hitschmann Double Arch Bridge Barton County, Kansas

Our local citizens want to protect our historic resources to preserve our own cultural heritage for generations to come. Most importantly, the bridge is beautiful and aesthetically charming in the rural countryside setting.

National Register of Historic Places Continuation Sheet

Section Number 9 Page 8

Hitschmann Double Arch Bridge Barton County, Kansas

BIBLIOGRAPHY

Barton County Commission Minutes dated July 8, 1941.

Conversations with Harry Hunsley, III - Russell, Kansas.

Harry Hunsley, III, is the son of a prior Barton County Engineer, Harry Hunsley, II. Harry Hunsley, II was the Barton County engineer during the WPA era. His work for the County spanned for the period 1936 – 1956.

Barton County Historical Society, Great Bend, Kansas File – History of Hitschmann, Kansas by Elfrieda Woydziak, Claflin, Kansas

Rosin, Elizabeth, et. al. "New Deal-era Resources of Kansas." National Register Multiple Property Documentation Form. 2002. Filed at the Kansas State Historic Preservation Office.

Jochims, Larry. "Masonry Arch Bridges of Kansas." National Register Multiple Property Documentation Form. 1985. Filed at the Kansas State Historic Preservation Office.

National Register of Historic Places Continuation Sheet

Section Number 10 & Photos

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Hitschmann Double Arch Bridge Barton County, Kansas

VERBAL BOUNDARY DESCRIPTION

The bridge is centered on a point whose longitude is 98° 33' 44" and latitude is 38° 38' 17". It is located on NE 190 Road ½ mile east of NE 110 Avenue South. There is a 50 foot right-of-way width surrounding this area. The nominated property includes the entire right-of-way.

The legal description is as follows:

SE ¼ SEC 20, T 16 S, R 12 W NE ¼ SEC 29, T 16 S, R 12 W

BOUNDARY JUSTIFICATION

These boundaries were selected to encompass the entire right-of-way surrounding the bridge.

PHOTOGRAPIC INFORMATION

Property: Hitschmann Double Arch Bridge Location: Hitschmann vicinity, Barton Co., KS Photographer: Clark Rusco, County Engineer

Date: January 3, 2008

Location of Digital Images or Negatives: Kansas State Historical Society

Photo 1: Overall view of NE 190 Road, facing E

Photo 2: North stone guardrail – 3 courses of stone, facing NW View from south ditch showing stone arches, facing NW

Photo 4: Close-up view of "1941" keystone, east arch, view from south ditch, facing N

Photo 5: Close-up of two arches, view from south ditch, facing N

